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L2	253	703/2.ccls. and @pd>="20080201"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/08/06 18:41
L4	25	(fir or (finite adj impulse)) and filter and ((maximal\$3 near flat) or bernstein) and recursi\$4 and @ad<"20021101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/08/06 19:08



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"finite impulse" bernstein flat

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Design of FIR notch filters by using Bernstein polynomials

SB JAIN, B KUMAR, SCD ROY - International journal of circuit theory and applications, 1997 - cat.inist.fr

... In this paper, **Bernstein** polynomials have been used ... notch filters which are maximally flat at ω ... **Filtre** réponse impulsion finie; **Finite impulse** response filter ...

Cited by 8 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Design of linear phase FIR filters with a maximally flat passband - all 2 versions »

MT Hanna - Circuits and Systems II: Analog and Digital Signal ..., 1996 - ieeexplore.ieee.org

... of odd and even length N of the real **finite impulse** response is (n ... Rajagopal and Dutta Roy used **Bernstein** polynomials for designing maximally flat low-pass ...

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Closed-form design of maximally flat FIR Hilbert transformers, differentiators, and fractional ...

SC Pei, PH Wang - Circuits and Systems I: Fundamental Theory and Applications, ..., 2001 - ieeexplore.ieee.org

... Case 4 maximally flat (MF) FIR HTs were derived. These expressions with double summations are computed by using a generalization of the **Bernstein** polyno- mial. ...

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Design and multiplierless realization of maximally flat FIR digitalHilbert transformers - all 2 versions »

S Samadi, Y Igarashi, H Iwakura - Signal Processing, IEEE Transactions on [see also Acoustics, ..., 1999 - ieeexplore.ieee.org

... and multiplierless realization of maximally flat FIR digitalHilbert ... realization of type-3 **finite impulse** response (FIR ... method based on **Bernstein** polynomials and ...

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Analytical design of 3-D wavelet filter banks using themultivariate Bernstein polynomial - all 3 versions »

DBH Tay - Vision, Image and Signal Processing, IEE Proceedings-, 2000 - ieeexplore.ieee.org

... of flatness in the frequency response (**flat** filters have ... of a zero-phase FIR (**finite impulse** response) filter ... the characteristics of the **Bernstein** polynomial. ...

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Filter-generating systems - all 2 versions »

S Samadi, A Nishihara, H Iwakura - Circuits and Systems II: Analog and Digital Signal ..., 2000 - ieeexplore.ieee.org

... existing in some classes of **finite-impulse** response (FIR ... it is shown that using the **Bernstein** approximation, the ... function of low-pass maximally flat filters can ...

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Multiplierless and hierarchical structures for maximally flathalf-band FIR filters

S Samadi, H Iwakura, A Nishihara - Circuits and Systems II: Analog and Digital Signal ..., 1999 - ieeexplore.ieee.org

... the transfer function of linear-phase **finite impulse** response (FIR ... Using that circuit, a maximally flat low-pass or ... It is based on the **Bernstein** polynomials [8 ...

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Closed-form design of maximally flat FIR Hilbert transformers, differentiators, and fractional ...

SC Pei, PH Wang - Circuits and Systems I: Fundamental Theory and Applications, ..., 2001 - [ieeexplore.ieee.org](#)
... Case 4 maximally flat (MF) FIR HTs were derived. These expressions with double summations are computed by using a generalization of the Bernstein poly-no-mial. ...

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Analytical design of 3-D wavelet filter banks using themultivariate Bernstein polynomial - all 3 versions »

DBH Tay - Vision, Image and Signal Processing, IEE Proceedings-, 2000 - [ieeexplore.ieee.org](#)
... of flatness in the frequency response (flat filters have ... of a zero-phase FIR (finite impulse response) filter ... the characteristics of the Bernstein polynomial. ...

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S Samadi, A Nishihara, H Iwakura - Circuits and Systems II: Analog and Digital Signal ..., 2000 - [ieeexplore.ieee.org](#)

... existing in some classes of finite-impulse response (FIR ... it is shown that using the Bernstein approximation, the ... function of low-pass maximally flat filters can ...

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Explicit formulae for coefficients of 2D circular symmetric MAXFLATFIR low/high pass digital filters - all 2 versions »

IR Khan, R Ohba - Electronics Letters, 2001 - [ieeexplore.ieee.org](#)
... FIR filters using the Bernstein polynomial', IEEE ... of two- dimensional maximally flat diammsomd-slmaped half-band finite impulse response filters ...

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Design of arbitrary cutoff 2-D diamond-shaped FIR filters using theBernstein polynomial

SC Pei, PH Wang - Signal Processing Letters, IEEE, 2000 - [ieeexplore.ieee.org](#)
... linear-phase, diamond-shaped (DS) finite impulse response (FIR ... approximated by a 2-D Bernstein polynomial, the ... The resultant magnitude responses are flat in the ...

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High-speed dual-modulus prescaler architecture for programmabledigital frequency dividers - all 2 versions »

E Tournier, M Sie, J Graffeul - Electronics Letters, 2001 - [ieeexplore.ieee.org](#)
... and NISHIHARA, A.: 'Maximally flat half- band ... FIR filters using the Bernstein polynomial', IEEE ... diamond-shaped half-band finite impulse response filters ...

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FIR Notch Filter Design-A Review

SCD Roy, B Kumar, SB Jain - Facta Universitatis (Nij), Series Electronics and Energetics, 2001 - [factaeef.fak.ni.ac.yu](#)

... impulse response (IIR) as well as finite impulse response (FIR ... on the use of (i) Bernstein polynomials, and (ii ... been exploited to obtain maximally flat FIR notch ...

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IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

1. **Design of arbitrary cutoff 2-D diamond-shaped FIR filters using the Bern**
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Volume 7, Issue 11, Nov. 2000 Page(s):310 - 313
Digital Object Identifier 10.1109/97.873567
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2. **Design and multiplierless realization of maximally flat FIR digital Hilbert**
Samadi, S.; Igarashi, Y.; Iwakura, H.;
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Volume 47, Issue 7, July 1999 Page(s):1946 - 1953
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3-6 May 1993 Page(s):96 - 99 vol. 1
Digital Object Identifier 10.1109/ISCAS.1993.393666
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